Site: Peaches		Overall Confidence Rating: m								
Background: Agricultural Statistics Board, NASS, USDA, January, 1998, p. 50: Bearing Acreage, peaches: 167, 900 acres.										
Organophosphate	% Tre	eated	# Appli	cations	Rate (l	lb AI/A)	PHI (days)			
Pesticides	Max ¹⁵	Avg ¹⁵	Max ¹³	Avg ^{15, 2}	Max ¹³	Avg ^{15, 2}	Min ¹³	Avg ^{2, 15}		
azinphos-methyl	35	30	NS	2.5	2.8	1.38	21	35		
chlorpyrifos	29	21	NS	1.4	4	1.3	14	60		
diazinon	30	15	NS	1.1	8.75	1.7	21	45		
fenamiphos	3	2.5	NS		7.5		45			
malathion	4.6	2.3	NS	1.7	15.77	1	21			
methidathion	13	10	NS	1	3	1.50				
methyl parathion	69	46	NS	1	2	1	14	30		
naled	1	< 1	NS	1	3.75	3.1	30			
phosmet	22	13	NS	2.4	3	1.2	14	20		

Confidence Rating: H= high confidence = data from several confirming sources; confirmed by personal experience

M = medium confidence = data from only a few sources; may be some conflicting or unconfirmed info.

L = low confidence = data from only one unconfirmed source

Organophosphate Target Pests for Peaches in the North Eastern Region (Primary pests controlled by the OP's) ^{1,3,4,5}								
Major	Bugs (Tarnished Plant, Stink, and Other), Moth (Oriental Fruit and Tufted Apple Bud), Plum Curculio							
Moderate	Borer (Peach tree, Lesser Peach Tree, and American Plum), Leafroller (Obliquebanded)							
Minor								

Major = 20+% of all OP usage on pest; Moderate = 5-20% of all OP usage on pest; Minor =<5% of all OP usage on pest

Organophospha	ate Target Pests for Peaches in the North Central Region	(Primary pests controlled by the OP's) ^{1,6}
Major	Moth (Oriental Fruit)	
Moderate	Plum Curculio, Bug (Tarnished Plant)	
Minor	Beetle (Rose Chafer and Japanese), Aphids (Green Peach)	

Major = 20+% of all OP usage on pest; Moderate = 5-20% of all OP usage on pest; Minor =<5% of all OP usage on pest

Organophosphate Target Pests for Peaches in the South Eastern Region (Primary pests controlled by the OP's) ^{1,7,8,9}								
Major	Moth (Oriental Fruit), Bug (Tarnished Plant, Stink, and Other)							
Moderate	Plum Curculio							
Minor								

 $Major = 20 + \% \ of \ all \ OP \ usage \ on \ pest; \ Moderate = 5 - 20\% \ of \ all \ OP \ usage \ on \ pest; \ Minor = < 5\% \ of \ all \ OP \ usage \ on \ pest$

Organophosphate Target Pests for Peaches in the Western Region (Primary pests controlled by the OP's) ^{1,11}								
Major	Borer (Peach Twig, American Plum and Prune Limb), Scale (San Jose), Moth (Oriental Fruit)							
Moderate								
Minor								

Major = 20+% of all OP usage on pest; Moderate = 5-20% of all OP usage on pest; Minor =<5% of all OP usage on pest

Organophospha	ate Target Pests for Peaches in the Pacific North Region (Primary pests controlled by the OP's) ^{1, 12}
Major	Moth (Oriental Fruit), Borer (Peach Twig, Shothole, and Peachtree)
Moderate	
Minor	

Major = 20+% of all OP usage on pest; Moderate = 5-20% of all OP usage on pest; Minor =<5% of all OP usage on pest

Sources:

- 1. Proprietary EPA market share information.
- 2. QUA+ Michigan. 1997.
- 3. Pennsylvania Tree Fruit Production Guide. 1996-1997. Penn State Cooperative Extension Service. The Pennsylavania State University, University Park, PA.
- 4. New Jersey Commercial Tree Fruit Production Guide. 1997. Rutgers Cooperative Extension, N. J. Agricultural Experiment Station, Rutgers, The State University of New Jersey, New Brunswick, NJ. Publication E002J.
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- 7. The 1997 North Carolina Agricultural Chemicals Manual. 1997. North Carolina State University, Raleigh, NC.
- 8. 1996 Commercial Peach Pest Management Guide. 1996. Clemson University Cooperative Extension Service, Clemson University, Clemson, SC. Publication IC72.
- 9. 1997 Commercial Peach Integrated Crop Management Guide. 1997. Cooperative Extension, University of Georgia.
- 10. Insect and Disease Control on Peaches, Apricots, Nectarines, and Plums. 1996. Texas Agricultural Extension Service, Texas A&M University, College Station, TX.
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- 11. Peach and Nectarine Pest Management Guidelines. 1996. UCPMG Publication 10. IPM Education and Publications, University of California, Davis.
- 12. 1998 Crop Protection Guide for Tree Fruits in Washington. 1998. Cooperative Extension, Washington State University, Pullman, WA. Publication EB0419.
- 13. Label Use Information System (LUIS) Version 5.0, EPA.
- 14. The All-Crop, Quick Reference Insect Control Guide (1997), Meister Publishing Company
- 15. EPA Crop Profile QUA.

Date: 01/22/99

Site: Peaches

Region: Western (CA)

Pest ^{1, 2, 3}	Organophosphate ^{1, 2, 3}	Efficacy	Mkt ¹	Class	Alt. Pesticide List ^{1, 2, 3}	Efficacy	Mkt ¹	Constraints of Alternatives ²
Timing: Pre-Bloom								
Borer	azinphos-methyl		High	С	carbaryl		Lo	Carbamates or Pyrethroids kill
(Peach Twig, American	chlorpyrifos		Lo	P	esfenvalerate		Lo	beneficial and/or nontarget organisms and may induce other
Plum, and Prune limb) (Major)	diazinon		High	P	permethrin		High	pest problems.
	malathion		Lo	О	Bacillus thuringiensis		Lo	
(Wajor)	methidathion		Lo	О	formetanate hydrochloride		Lo	
	methyl parathion		Lo	О	petroleum oil		Lo	
	phosmet		Lo					
Scale (San Jose)	chlorpyrifos		Lo	О	insecticidal soap		Lo	Petroleum oil alone is generally not sufficient for control.
(Major)	diazinon		High	О	petroleum oil		Lo	
	methidathion		High					

ADDITIONAL INFORMATION:

SOURCES:

- 1. Proprietary EPA market share information.
- 2. Peach and Nectarine Pest Management Guidelines. 1996. UCPMG Publication 10. IPM Education and Publications, University of California, Davis.
- 3. The All-Crop, Quick Reference Insect Control Guide (1997), Meister Publishing Company.
- 4. Label Use Information System (LUIS) Version 5.0, EPA.

Date: 8/31/98

Site: Peaches

Region: Western (CA)

Pest ^{1, 2, 3}	Organophosphate ^{1,2,3}	Efficacy	Mkt ¹	Class	Alt. Pesticide List ^{1,2,3}	Efficacy	Mkt ¹	Constraints of Alternatives ²
Timing: Post-Bloom								
Moth	azinphos-methyl		Med	С	carbaryl		Lo	Carbamate and/or Pyrethroid use
(Oriental fruit) (Major)	chlorpyrifos		Lo	С	methomyl		Lo	will kill beneficial insects and may result in other pest problems.
	diazinon		Lo	P	esfenvalerate		Med	Permethrin use requires multiple applications for control.
, 3	malathion		Lo	P	permethrin		High	
	methidathion		Lo	СН	dicofol		Lo	Bt is less effective and/or displays variable effectiveness.
	naled		Lo	В	Bacillus thuringiensis		Lo	variable effectiveness.
	methyl parathion		High	О	clofentezine		Lo	
	phosmet		Lo	О	fenbutatin oxide		Lo	
				0	formetanate hydrochloride		Lo	
			Ш	О	pheromone			
			Ш	0	petroleum oil		Lo	
				О	propargite		Lo	
Borer	azinphos-methyl		Med	С	carbaryl		Lo	Bt requires multiple applications
(Peach twig)	chlorpyrifos		Lo	С	methomyl		Lo	against the Peach twig borer.
(Major)	diazinon		Lo	P	esfenvalerate		Med	Carbamates and Pyrethroids may disrupt natural enemies and result in
	malathion		Lo	P	permethrin		High	outbreaks of other pests.
	methidathion		Lo	P	pyrethrins		Lo	
	methyl parathion		High	СН	endosulfan		Lo	
	naled		Lo	В	Bacillus thuringiensis		Med	
	phosmet		Lo	О	fenbutatin oxide		Lo	

Pest Importance: Major = 20+% of all OP usage on pest; Moderate = 5-20% of all OP usage on pest; Minor = <5% of all OP usage on pest Efficacy Rating: Excellent = ⊚ Good = O Fair = ● ---= Not rated for efficacy in state recs.

Market Share: High = 20+% OP usage on pest; Med = 5-20% of all usage on pest; Lo = <5% of all usage on pest; --- = not available for 1994-96. Insecticides: C = Carbamates; P = Pyrethroids; CH = Chlorinated Hydrocarbons; IGR = Insect Growth Regulators; B = Biological; O = Other pesticide

Site: Peaches

Region: Western (CA)

Pest ^{1, 2, 3}	Organophosphate ^{1, 2, 3}	Efficacy	Mkt ¹	Class	Alt. Pesticide List ^{1, 2, 3}	Efficacy	Mkt ¹	Constraints of Alternatives ²
Timing: Post-Bloom								
				О	formetanate hydrochloride		Lo	
				О	petroleum oil		Lo	
				О	propargite		Lo	
				О	sulfur		Lo	
Scale (Red	chlorpyrifos		High	j C	carbaryl			Carbamates and Pyrethroids may
and San Jose)	diazinon		High	P	petroleum oil		High	disrupt natural enemies and result in outbreaks of other pests.
(Minor)	methidathion		High	О	esfenvalerate		Med	
, , , ,	methyl parathion		Lo					

ADDITIONAL INFORMATION:

SOURCES:

- 1. Proprietary EPA market share information.
- 2. Peach and Nectarine Pest Management Guidelines. 1996. UCPMG Publication 10. IPM Education and Publications, University of California, Davis.
- 3. The All-Crop, Quick Reference Insect Control Guide (1997), Meister Publishing Company.
- 4. Label Use Information System (LUIS) Version 5.0, EPA.

Date: 8/31/98